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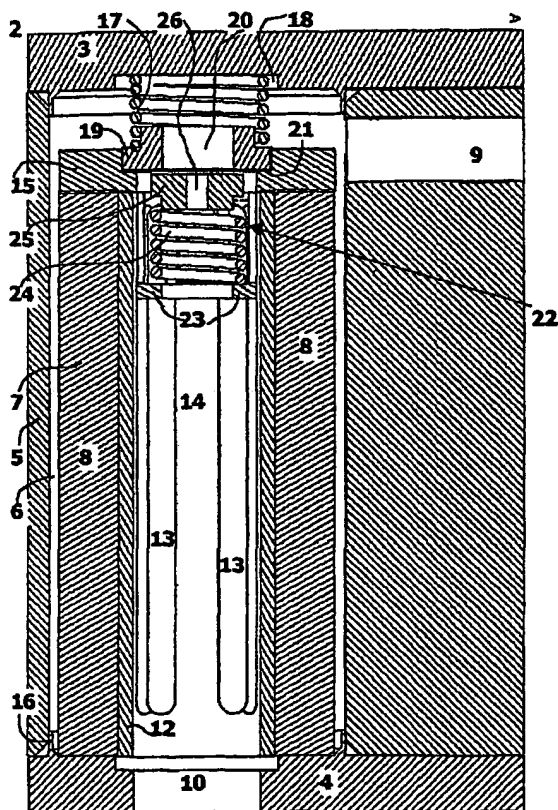
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(54) Title: MICRO-FILTER DEVICE WITH BY PASS AND METHOD OF DESIGN THEREFOR



(57) Abstract: Micro-filter device and method of design
therefore, for optimising the same for use in a situation in
which at different flows of oil through the device (1), differ-
ent 5 pressure differences P_d over the device (1) are allowed,
comprising the steps of determining the minimum cross sec-
tion of a restriction (26) for allowing a minimum amount of
flow of oil for by-passing a micro-filter element (7), required
for attaining a given maximum pressure difference (P_2) over
the device at a lowest given amount of flow of oil; limiting
the maximum P_d to that of a largest given amount of flow
through 10 the device (1) by the use of a pressure valve sys-
tem (22) opening once said maximum pressure difference
(P_1) has been reached. The device (1) is provided with both
an orifice (26) and a pressure valve system (22) allowing a
flow of oil by-passing the filter element (7).



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